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Application No. Applicant(s)

09/986,751 GRUBE, GARY W.

Examiner Art Unit

Randall Chin 1744

| 1 | Rejected |
|---|----------|
| = | Allowed |

| - | (Through numeral) Cancelled |
|---|--------------------------------|
| + | Restricted |

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| Cla | aim Date | | | | | | | Cla | aim_ | Date | | | | | | #### # | CI | aim | Date | | | | | | | | | | |
|----------|------------|--------------|--------|----------|-----------------|----------|--------------|--|------|----------|----------|----------|--------------|---------|-----------|---------------|---------|---------------|-------|-------|------------|-----------------|----------|----------|------------------|-----------------|-----------------|-----------|--------|
| Final | Original | 2/20/04 | | | | | | | | Final | Original | | | | | | | | | Final | Original | | | | | | | | |
| | B | V | _ | | | \perp | | | | | 51 | | \pm | 士 | | | | | | | 101 | | | | | | | | |
| | 2 | V | | | | | | | | | 52 | \Box | \bot | 1 | | | \perp | | | | 102 | | | 1 | _ | Ш | Ш | _ | _ |
| | (3) | 0 | _ | _ | Ш | _ | | _ | | | 53 | 1 | 4 | + | - | - | + | 4 | | | 103 | - | ╀- | ╄- | ↓_ | H | $\vdash \vdash$ | \dashv | |
| _ | 4 (5) | 0 | - | | Н | | +- | \vdash | | <u> </u> | 54 | | + | + | - | \vdash | + | 1- | | | 104 105 | - | +- | +- | \vdash | Н | \vdash | | _ |
| - | | 9 | - إ- | \vdash | | | ╁ | | | | 55 56 | | + | + | ╁╌ | \vdash | + | + | | | 106 | - | +- | ╁ | H | \vdash | \vdash | \dashv | - |
| - | Ø | | 4 | H | - | | +- | - | | | 57 | | ╁ | ╁ | +- | \vdash | ┰ | + | | | 107 | | + | ┼- | | H | \vdash | \dashv | |
| - | (8) | 0 | + | | \vdash | \pm | + | | | | 58 | \top | 十 | 1 | \top | | \top | \Box | | | 108 | | \vdash | 1 | 1- | Н | П | \neg | _ |
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| | 10 | 0 | ┪ | | H | \neg | 1 | | Ji., | | 60 | | | | | | | | | | 110 | | | | | | | | |
| | 11 | 0 | \neg | | | | | | | | 61 | | \perp | | | | | | | | 111 | | | | | | Ш | \sqcup | _ |
| | 12. | N | .] | | | | $oxed{\Box}$ | | | | 62 | | 工 | \perp | | \Box | \perp | | | | 112 | | 1 | | <u> </u> | Ш | Ш | _ | |
| | (13) | 4 | | Ш | \sqcup | \bot | + | _ | | | 63 | - | \bot | \bot | | | \perp | \sqcup | | | 113 | $\vdash \vdash$ | + | \vdash | - | \sqcup | $\vdash \vdash$ | | _ |
| | Y 4 | \prod | | Ш | Ш | \perp | 1- | | | L | 64 | | | + | | 1 | + | + | | | 114 | | ╄- | 1- | | Ш | $\vdash \vdash$ | 4 | |
| ļ | 15 | \mathbf{H} | - | \vdash | \dashv | + | +- | H | | | 65 | + | + | +- | - | \dashv | + | + | - | | 115 | - | - | ╀ | - | Н | \vdash | \dashv | _ |
| <u> </u> | 16 | 1 | | - | - | | <u> </u> | <u> </u> | | | 66 | | + | 4- | | | + | - | | | 116 117 | | + | | | \vdash | \vdash | \dashv | _ |
| - | 17 | | | Н | \dashv | _ | ┿ | \vdash | | | 67 68 | - | + | + | \vdash | + | + | + | | | 118 | | - | | - | Н | Н | \dashv | _ |
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| _ | 4 | \dashv | + | Н | | \dashv | + | Н | | | 71 | - | + | + | \vdash | | ╅ | \top | | _ | 121 | | 1 | 1 | | | П | ヿ | _ |
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| | 24 | | \top | | \Box | \neg | \top | | | | 74 | | \top | \top | | | \top | \top | | | 124 | | T | | | | П | \neg | |
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| | 26 | 7 | | П | | | | | | | 76 | | | | | | | | 1 | | 126 | | | | | | | | |
| | 27 | | | | | | | | | | 77 | | $oxed{oxed}$ | \perp | | | | | | | 127 | | | | | | \Box | | |
| | 28 | | | | | | | | | | 78 | | \perp | \perp | | | | Ш | | | 128 | | ┸ | ┖ | | Ш | Ш | _ | _ |
| | 29 | Ш | | Ш | | \perp | | | | | 79 | | | 1 | | | Ц | \perp | | | 129 | _ | ┺ | <u> </u> | | \sqcup | \vdash | _ | _ |
| | 30 (31) | | - | Ш | | _ | 4_ | | | | 80 | _ | 4 | 4 | _ | Ш. | - | \bot | | | 130 | \perp | + | ⊢ | Ļ. | \vdash | \vdash | 4 | |
| _ | (31/ | | - | - | \dashv | | \bot | - | | | 81 | - | + | | - | | + | + | : ::: | | 131 | - | ╀ | ├- | - | Н | \vdash | | |
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| | 32 | . | | Н | \vdash | _ | + | - | | | 86 | + | + | + | \vdash | - | + | +i | | | 136 | | + | \vdash | | | \neg | \dashv | _ |
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| | 40 | | | П | | | T | | | | 90 | | 7 | 1 | | | \perp | | | | 140 | | | | | | | | _ |
| | 41 | | | | | | | | | | 91 | | I | | | | Τ | | | - | 141 | | | | | | \Box | | |
| | 42 | | | \Box | | \perp | Ţ | | | | 92 | \Box | \perp | | | Д | \perp | Ш | | | 142 | | | | | П | Д | | |
| | 43 | | | \Box | | | | | | | 93 | _ | 1 | | \Box | | \perp | $\perp \perp$ | | | 143 | _ | 1_ | _ | | Ш | igspace | _ | |
| | 44 | | | | | | 1 | | | | 94 | _ | \perp | \perp | | | _ | $\perp \perp$ | | | 144 | | \perp | 1 | | Ш | , | _ | |
| | 45 | \perp | + | Н | \sqcup | _ | 1 | | | | 95 | _ | + | + | Ш | _ | - - | + | | | 145 | | +- | - | \vdash | \vdash | \dashv | | _ |
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| | 47 | \dashv | + | \vdash | $\vdash \vdash$ | | + | | | | 97 | | + | + | | + | - | \dashv | | | 147 | | - | \vdash | \vdash | | \dashv | \dashv | |
| \vdash | 48 49 | + | - - | \vdash | \vdash | - | +- | \vdash | | | 98 99 | \dashv | + | ╁ | \vdash | + | +- | + | | - | 148 149 | + | + | \vdash | - | \vdash | \dashv | | _ |
| ļ | 50 | | | \vdash | \dashv | + | + | \vdash | | | 100 | - | + | +- | \vdash | | + | ┦┦ | | | 150 | | ╁ | - | | Н | \dashv | \dashv | - |